

**AMENDMENTS TO THE SPECIFICATION:**

*Please amend paragraph [0001] on page 1, as follows:*

[0001] This application is related to the following United States Patent applications, all simultaneously filed herewith: United States Patent Application Serial 10/713,313, ~~(attorney docket 2380-776)~~, entitled "Multi-Dimensional Joint Searcher And Channel Estimators"; United States Patent Application Serial 10/717,203, ~~(attorney docket 2380-795)~~, entitled "Spatial Joint Searcher And Channel Estimators"; United States Patent Application Serial 10/717,212, ~~(attorney docket 2380-797)~~, entitled "Spatio-Temporal Joint Searcher And Channel Estimators", all of which are incorporated by reference herein.

*Please amend paragraph [000108] beginning on page 24, line 26, and continuing to page 25, line 2, as follows:*

For each sampling window time index of the antenna signal matrix 80, as step 10-1 the parametric estimator 51-2B estimates, e.g. two parameters at each time instant: a spatial frequency parameter ~~parameter~~ and a spatial amplitude parameter. The spatial frequency parameter estimates the frequency the incident waves creates when arriving at the ULA. The spatial amplitude parameter estimates the amplitude of this frequency. The spatial frequency parameter and spatial amplitude parameter are considered to be a parameter pair and in Fig. 9B, they are illustrated as one parameter per sample along the sampling time index. The parameters can be calculated by an appropriate strategy or goal criteria, e.g., by a minimum mean square error technique (MMSE).

*Please amend paragraph [000151] beginning on page 35, line 13, and continuing to page 35, line 21, as follows:*

For each sampling window time index of the antenna signal matrix 110. As step 17-1, the parametric estimator 51-13B estimates, e.g., two parameters at each time instant: a temporal frequency parameter ~~parameter~~ and a temporal amplitude parameter. The temporal frequency parameter estimates the frequency the incident waves creates when arriving at the antenna for the consecutive pilot symbols. The temporal amplitude parameter estimates the amplitude of this frequency. The temporal frequency parameter and temporal amplitude parameter are considered to be a parameter pair and in Fig. 16B , they are illustrated as one parameter per sample along the sampling time index.